

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

16DL2CZ47A, 16FL2CZ47A

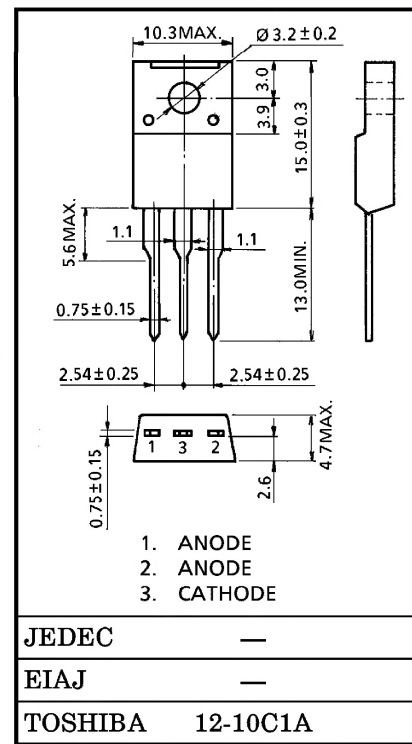
SWITCHING TYPE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

Unit in mm

- Repetitive Peak Reverse Voltage : $V_{RRM}=200, 300V$
- Average Output Rectified Current : $I_O=16A$
- Ultra Fast Reverse-Recovery Time : $t_{rr}=35ns$ (Max.)
- Low Switching Losses and Output Noise.

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	16DL2CZ47A	V _{RRM}	200	V
	16FL2CZ47A		100	
Average Output Rectified Current (Full Sine Waveform)		I _O	16	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I _{FSM}	80 (50Hz)	A
			88 (60Hz)	
Junction Temperature		T _j	−40~150	°C
Storage Temperature Range		T _{stg}	−40~150	°C
Screw Torque		—	0.6	N·m



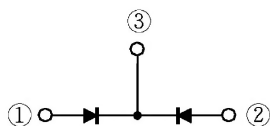
Weight : 2.0g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

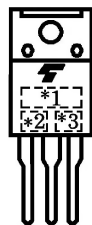
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	16DL2CZ47A	V _{FM}	I _{FM} =8A	—	—	0.98	V
	16FL2CZ47A			—	—	1.3	
Repetitive Peak Reverse Current (Note 1)		I _{RRM}	V _{RRM} =Rated	—	—	50	μA
Reverse Recovery Time (Note 1)		t _{rr}	I _F =2.0A, di / dt= −50A / μs	—	—	35	ns
Forward Recovery Time (Note 1)		t _{fr}	I _F =1.0A	—	—	100	ns
Thermal Resistance		R _{th(j-c)}	DC Total, Junction to Case	—	—	3.3	°C / W

(Note 1) A value of one cell.

POLARITY



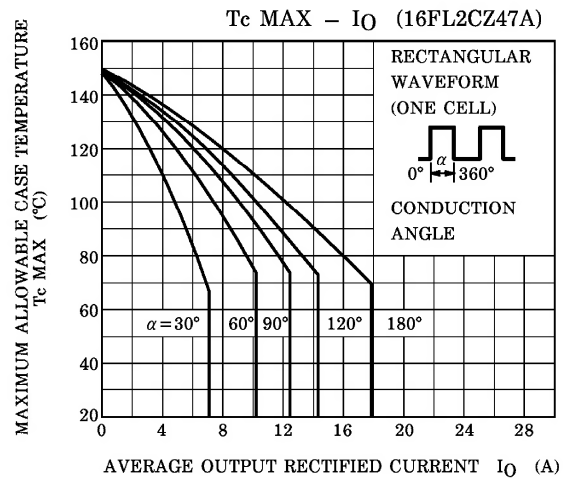
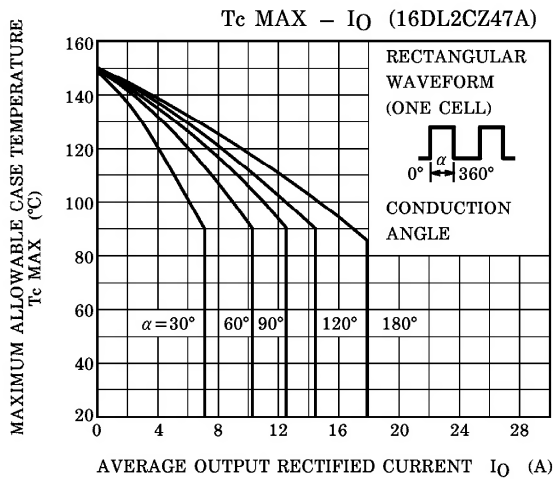
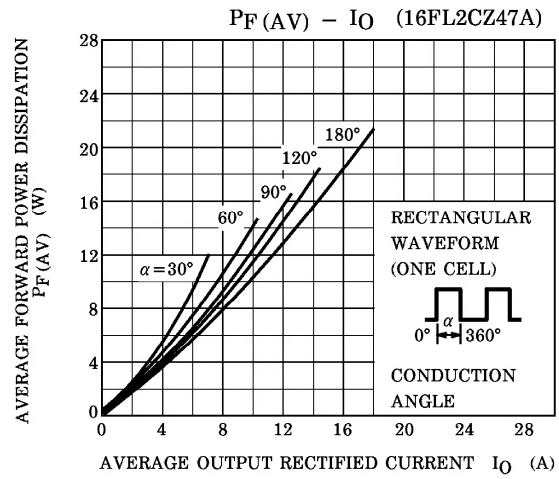
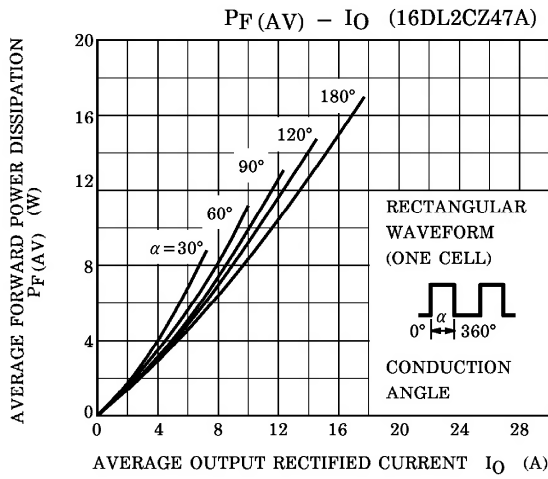
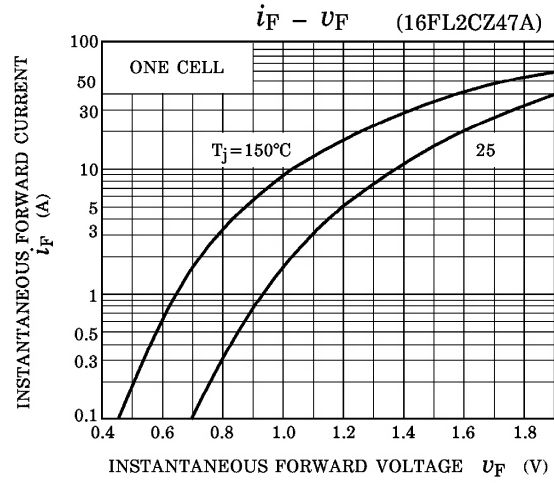
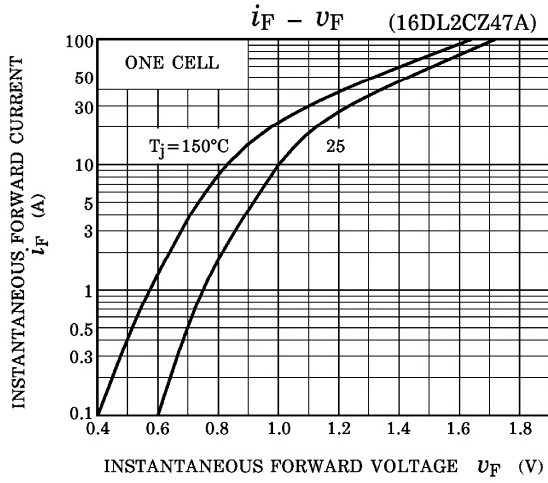
MARKING



*1	MARK	16DL2CZ	TYPE	16DL2CZ47A
		16FL2CZ		16FL2CZ47A
*2	A			
*3	Lot Number <div> <div> <div></div> <div></div> </div> <div> <div>—Month (Starting from Alphabet A)</div> <div>—Year (Last Number of the Christian Era)</div> </div> </div>			

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